

## Environmental Chemistry Concentration

Students are required to select courses in Biology, Chemistry, Geology, Environmental Science, and elective courses in consultation with a environmental science advisor.

### Additional Required Courses

COURSES.....			SEMESTER HOURS
BIO	2400	General Microbiology .....	5
CHE	3000	Analytical Chemistry .....	3
CHE	3010	Analytical Chemistry Laboratory .....	2
CHE	3050	Environmental Chemistry .....	3
CHE	3100	Organic Chemistry I .....	4
CHE	3120	Organic Chemistry Laboratory I .....	2
CHE	3110	Organic Chemistry II .....	4
CHE	3130	Organic Chemistry Laboratory II .....	2
<i>Subtotal</i> .....			25

### Environmental Science and Geology – Select at least 9 hours

COURSES.....			SEMESTER HOURS
GEL	3050	Mineralogy and Petrology.....	4
GEL	3060	Stratigraphy and Structure*.....	4
GEL	3120	Advanced Geomorphology* .....	4
GEL	3150	Hydrogeology.....	3
GEL	3420	Soil Resources*.....	4
GEL	3440	Energy and Mineral Resources* .....	4
ENV	3710	Environmental Remediation .....	3
ENV	3720	Waste Management .....	3
ENV	3730	Environmental Risk Assessment .....	3
ENV	3740	Environmental Health.....	3
ENV	4000	Environmental Geology.....	3
ENV	4010	Environmental Hazards and GIS* .....	3
ENV	4200	Environmental Policy and Planning .....	3
ENV	4420	Wetlands .....	3
ENV	4430	Habitat Planning .....	2
ENV	4440	Landscape Ecology* .....	3
ENV	4500	Environmental Biogeochemistry.....	3
ENV	4910	Global Environmental Field Problems: Variable Topics .....	3
ENV	4920	Topics in Environmental Science: Variable Topics .....	3
MTR	3100	Air Pollution.....	3

\*Course has additional prerequisites; check current MSCD College Catalog for requirements.

### Social Sciences – Select at least 3 hours

ECO	3450	Environmental Economics*.....	3
PSC	3230	Environmental Politics*.....	3
SOC	3770	Society and the Environment*.....	3
HIS	3880	American Environmental History.....	3
GEG	3610	Principles of Land Use Planning*.....	3
COM	3670	Writing for the Environmental Industry*.....	3
ENV	3620	Population, Resources, and Land Use*.....	3

\*Course has additional prerequisites; check current MSCD College Catalog for requirements.

### Internship Requirement

ENV	4950	Internship in Environmental Science .....	3
-or-			
CHE	4650	Chemistry Work Experience/Cooperative Education*.....	4

\*Course has additional prerequisites; check current MSCD College Catalog for requirements.

## Senior Experience Graduation Requirement

COURSES.....			SEMESTER HOURS
ENV	4970	Environmental Field Studies.....	3
	-or-		
BIO	4510	Microbial Ecology*.....	4
	-or-		
CHE	4950	Senior Experience in Chemistry*.....	3

*\*Course has additional prerequisites; check current MSCD College Catalog for requirements.*

<i>Total General Studies Course Requirements*.....</i>	<i>36</i>
<i>Environmental Science Required Core Courses.....</i>	<i>36</i>
<i>Environmental Chemistry Requirements.....</i>	<i>37</i>
<i>Internship Requirement.....</i>	<i>3-4</i>
<i>Senior Experience Requirement.....</i>	<i>3-4</i>
<i>Unrestricted Electives*.....</i>	<i>3-5</i>
<i>Total for Environmental Science Degree: Environmental Chemistry Concentration.....</i>	<i>120</i>

*\*The multicultural requirement of 3 hours must also be satisfied.*